

DP-309740/DP-309741/DP-309742

5

DIAPHRAGM-LESS VACUUM BOOSTER

ABSTRACT OF THE DISCLOSURE

10 A vacuum booster and method utilize a power piston apparatus including a power
piston operatively mounted within a booster housing for movement along a longitudinal
axis of the booster, and having a sliding seal fixedly attached thereto for slidingly
engaging a sealing surface of an annular wall of the booster housing and axially dividing
the closed booster cavity into a high pressure cavity and a low pressure cavity. The
sliding seal is mounted on an outer periphery of a seal support flange extending radially
15 outward from the power piston. A convoluted divider provides an air passage connecting
primary and secondary high pressure cavities in the booster, without the use of air tubes.